



Library	Sequence	Incidence
Ph.D.-12	HPIKQYWWRPSI-----	22/26
Ph.D.-12	----PIWKHSGGPIL-	1/26
Ph.D.-12	----YWWRDAPVSQGR	1/26
Ph.D.-12	SYPTDKWIKPG-----	1/26
Ph.D.-7	----VQWWRPT-----	7/15
Ph.D.-7	----NWWRPLP-----	1/15
Ph.D.-7	----GKWWVFD-----	1/15
Ph.D.-7	-VPTKPWW-----	1/15
Ph.D.-C7C	----PWKKTSK-----	6/15
Ph.D.-C7C	----PWKKASS-----	1/15
Ph.D.-C7C	---TPTWWRPT-----	1/15
Ph.D.-C7C	---APTWKKS-----	1/15
Ph.D.-C7C	----WWTSAWSR---	1/15
Ph.D.-C7C	---SARWWQP-----	1/15

FIG.1

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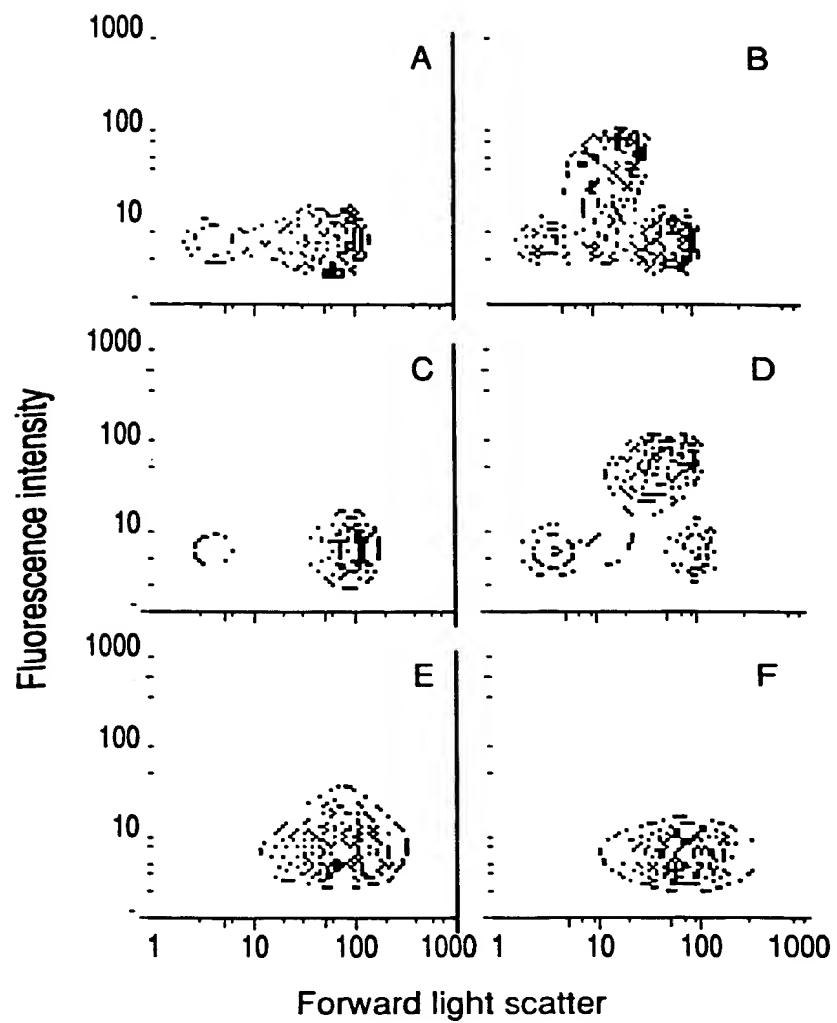


FIG.2

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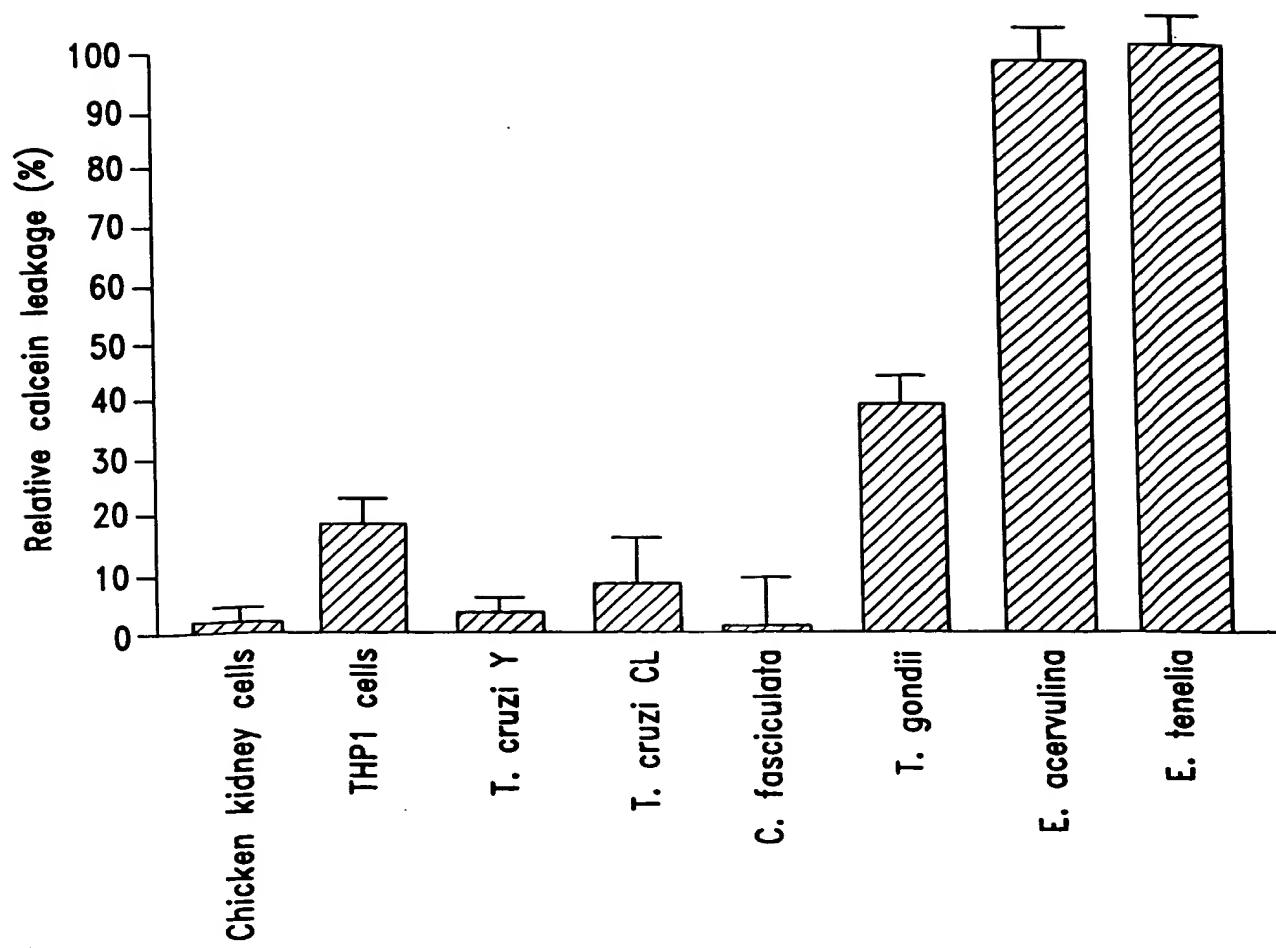


FIG. 3A

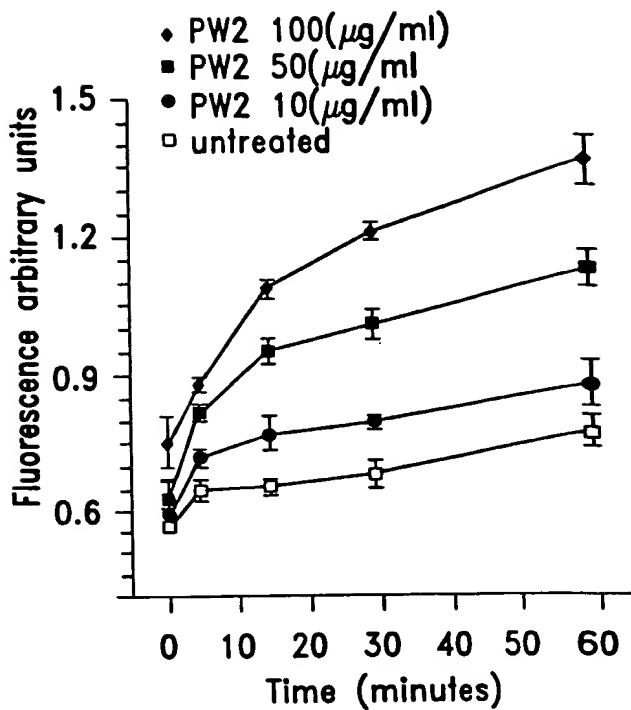


FIG. 3B

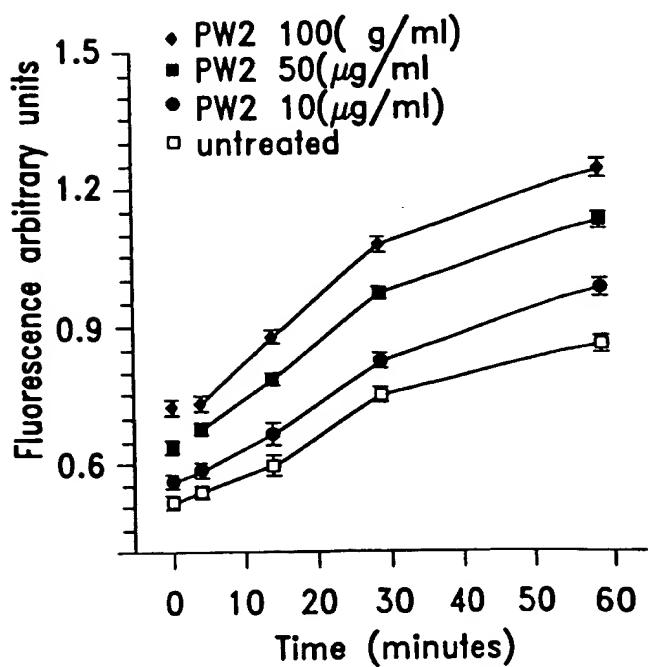


FIG. 3C



FIG. 4A



FIG. 4B

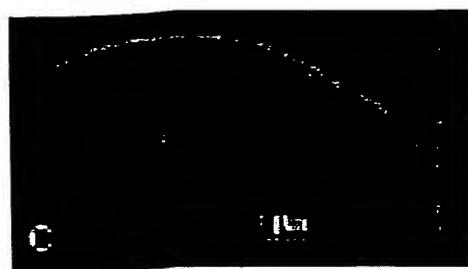


FIG. 4C



FIG. 4D



FIG. 4E



FIG. 4F

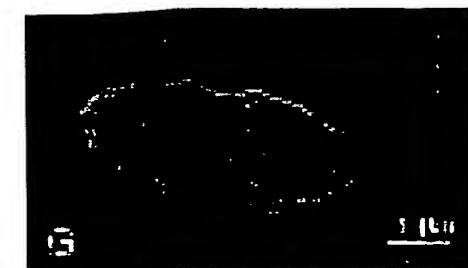
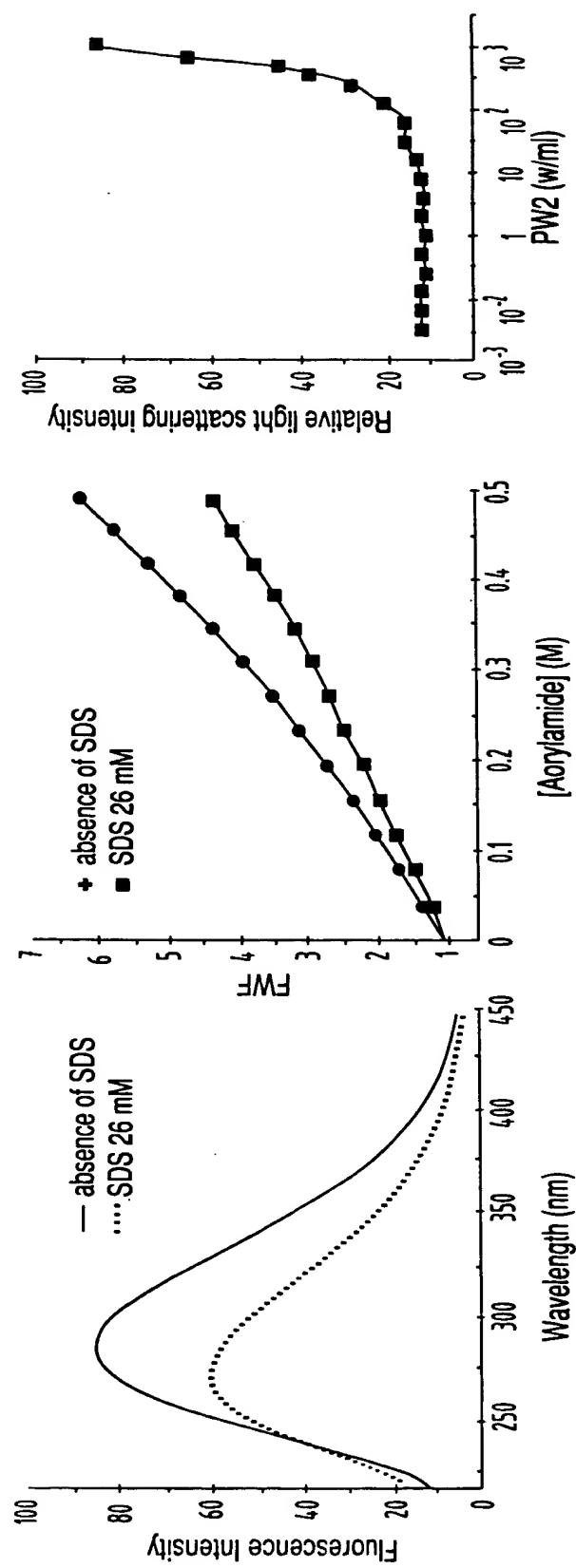


FIG. 4G



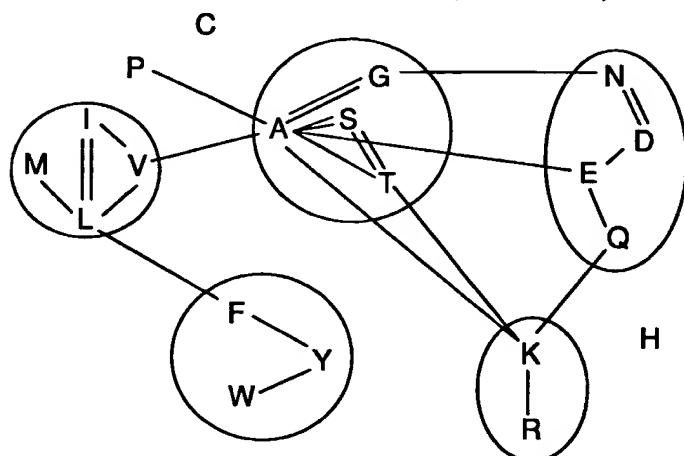
FIG. 4H

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Suggested Amino Acid Substitutions
solvent exposed ($SEA^2 > 30 \text{ A}^2$) / interior ($SEA^2 < 10 \text{ A}^2$)



Amino acids connected by a solid line can be substituted with 95% confidence
(D. Bordo and P. Argus, J. Mol. Biol. 217(1991)721-729)

²SEA=solvent exposed area

Figure 6